

040. STANDARDS FOR THERMOPLASTIC PIPE CASING AND LINERS (Rule 40).
Thermoplastic pipe used as casing or liner shall conform to ASTM F 480 and NSF-WC. ()

01. Conditions for the Use of Thermoplastic Pipe Casing and Liners. ()

a. Thermoplastic pipe may be used as liner when completely enclosed inside of permanent steel casing in all wells. Thermoplastic pipe used as liner shall have a minimum rating of SDR 26. ()

b. Thermoplastic pipe may be used as casing in all monitoring wells. Thermoplastic pipe used as casing in monitoring wells shall have a minimum rating of schedule 40. ()

c. Thermoplastic pipe may be used as casing in other wells only when drilling of the borehole confirms its suitability for use. The conditions for use of thermoplastic pipe as casing in other wells shall conform to the following: ()

i. Competent Units: Thermoplastic pipe having a minimum rating of SDR 21 may be used as casing only within uninterrupted competent units. ()

ii. Incompetent Units, or alternating (competent/incompetent unit) subsurface intervals: Thermoplastic pipe having a minimum rating of SDR 17 may be used as casing throughout all incompetent unit intervals, or wherever the subsurface geology alternates between competent and incompetent units. ()

d. In addition to the above and for each casing or liner application, the well driller shall ensure the selection and use of the appropriate, minimum-rated thermoplastic pipe with respect to differential hydraulic pressures in accordance with the manufacturer's Resistance to Hydraulic Collapse Pressure (RHCP) specifications. ()

02. Additional Requirements for Thermoplastic Pipe Casing and Liner. All thermoplastic pipe casing and liner shall be installed in accordance with the manufacturer's recommendations and specifications, and as required by these rules. The Well Driller shall: ()

a. Not use thermoplastic pipe as casing or liner in any Low Temperature Geothermal Resource well or Geothermal Resource well.

b. Not use thermoplastic pipe as working casing while drilling the borehole; ()

c. Not drive, force, jack, or push thermoplastic pipe into place. Thermoplastic pipe shall be lowered or floated into an obstruction-free borehole; and ()

d. All thermoplastic pipe used as casing shall be installed with centralizers placed not more than 40 feet apart, shall be fully supported by artificial filter pack in the screened interval, and sealed by positive displacement from the top of the filter pack (a) to land surface, or (b) into the permanent steel casing. Artificial filter pack or reserve filter pack (the additional amount of filter pack material emplaced above a well screen to allow for settling) shall not extend past any confining layer above the screened interval. ()